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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	49	("5826081" "6272517" "5515538" "6779182" "6223204" "6223204" "5946466" "6105049" "6105050" "6112222" "6732138" "5287508" "5752031" "5987492" "6182120" "5247675" "5630128" "6085215" "6728959" "5928322" "6560628" "6598068" "5632032" "5835768" "6128640" "5313638" "5452452" "6105053" "6587955" "6625635" "6633897" "6748593" "5339415" "6081906" "6094663" "5442797" "5504898" "5553305" "5835763" "5893159" "5907702" "5991794" "6052695" "6145061" "6167423" "6321265" "6393480" "6789163" "5551041" "5875329").pn.	USPAT	OR	OFF	2006/04/21 12:07
L3	134	dimension$3 near2 queue	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 12:07
L4	48	((multi? or two or (dimension$3 near2 queue) or three or "3") near2 dimension$3) near2 queue	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 12:07
L5	14	((multi? or two or (dimension$3 near2 queue) or three or "3") near2 dimension$3) adj queue	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 12:07
L6	6	(sleep adj queue).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 12:07
L7	66	sleep adj queue	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 12:07
L8	2	atomic adj walk adj procedure	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 12:07

L9	2	"20020194250"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 12:07
L10	49	("5826081" "6272517" "5515538" "6779182" "6223204" "6223204" "5946466" "6105049" "6105050" "6112222" "6732138" "5287508" "5752031" "5987492" "6182120" "5247675" "5630128" "6085215" "6728959" "5928322" "6560628" "6598068" "5632032" "5835768" "6128640" "5313638" "5452452" "6105053" "6587955" "6625635" "6633897" "6748593" "5339415" "6081906" "6094663" "5442797" "5504898" "5553305" "5835763" "5893159" "5907702" "5991794" "6052695" "6145061" "6167423" "6321265" "6393480" "6789163" "5551041" "5875329").pn.	USPAT	OR	OFF	2006/04/21 12:07
L11	48	((multi? or two or (dimension$3 near2 queue) or three or "3") near2 dimension$3) near2 queue	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 12:07
L12	14	((multi? or two or (dimension$3 near2 queue) or three or "3") near2 dimension$3) adj queue	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 12:07
L13	6	(sleep adj queue).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 12:07
L14	66	sleep adj queue	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 12:07
L15	2	atomic adj walk adj procedure	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 12:07

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L16	2	"20020194250"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 12:07
L17	134	dimension$3 near2 queue	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 12:07
L18	2	sleep adj queue with time with priorit$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 12:07
L19	48	((multi? or two or (dimension$3 near2 queue) or three or "3") near2 dimension$3) near2 queue	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 12:07
L20	3	"6609161".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 12:07
L21	3	(718/102-103.ccls.) and ((multi? or two or (dimension$3 near2 queue) or three or "3") near2 dimension$3) near2 queue	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 12:07
L22	48	((multi? or two or "2" or (dimension$3 near2 queue) or three or "3") near2 dimension$3) near2 queue	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 12:07
L23	41	((multi? or two or "2" or (dimension$3 near2 queue) or three or "3") near2 dimension$3) near2 queue and ((@ad<"20010618") or (@prad<"20010618") or (@rlad<"20010618"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 12:07
L24	4	(718/102-103.ccls. or 710/5.ccls.) and ((multi? or two or "2" or (dimension$3 near2 queue) or three or "3") near2 dimension$3) near2 queue and ((@ad<"20010618") or (@prad<"20010618") or (@rlad<"20010618"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 12:07

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Minimizers of the Stress Criterion for Metric **Multidimensional** Scaling Michael W. Trosset 1 Department
www.math.wm.edu/~trosset/Research/MDS/asa97.ps.Z

A New Approach for Computing Multi-dimensional.. - Kechriotis, An.. (1995) (Correct)
method on the iPSC/860. SP-EDICS 4.1.5 **Multidimensional** Signal Processing: System Architectures and
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A Spreadsheet Approach to Information Visualization - Chi, Barry, Riedl, Konstan (1997) (Correct) (21 citations)
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www.tele.ucl.ac.be/PEOPLE/BMa/VCIP_coding.ps.Z

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source localization, sonar applications, **multidimensional** blind channel equalization, spread-spectrum
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A Performance Analysis of Subspace-Based Methods in the.. - Swindlehurst, Kailath (1992) (Correct) (26 citations)
a similar analysis is performed for various **multidimensional** algorithms. 1. Introduction Within the
www.ee.byu.edu/ee/swindlehurst/arrayerror.ps.gz

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Improving the Accuracy of Differential-Based Optical Flow.. - Manduchi (1994) (Correct) (1 citation)
In the case of interlaced scanning systems, **multidimensional** interpolation techniques for the
vision.caltech.edu/manduchi/deriv.ps.Z

Two Neural Network Methods for Multidimensional Scaling - van Wezel, Kok, Kosters (1996) (Correct) (1 citation)
Two Neural Network Methods for **Multidimensional** Scaling Michiel C. van Wezel, Joost N. Kok
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Locality Preserving Load Balancing with Provably Small Overhead - Garmann (Correct)
the ratio of surface to volume. Therefore a **multidimensional** bisection strategy is superior to a
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of HOLSA. Its performance is tested on the **multidimensional** knapsack problem, using randomly generated

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they do not permit direct representation of **multidimensional** relations as needed for diagrams, thus
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single stage shuffle-exchange networks and **multidimensional** torus networks. By employing detailed
Deadlock When switches have a limited amount of **queues**, the message flow should be controlled so as not
of this thesis. In our evaluation, we use infinite **queues** to avoid deadlock problems. However, the
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1   Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: 📄 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2   Using weaves for software construction and analysis

Michael M. Gorlick, Rami R. Razouk

May 1991 **Proceedings of the 13th international conference on Software engineering**

Publisher: IEEE Computer Society Press

Full text available: 📄 pdf(1.30 MB)   Additional Information: full citation, references, citings

3   Online algorithms: Three dozen papers on online algorithms

Wojciech Jawor

March 2005 **ACM SIGACT News**, Volume 36 Issue 1

Publisher: ACM Press

Full text available: 📄 pdf(743.26 KB)   Additional Information: full citation, abstract, references, index terms

This column contains a summary of last year's research on online algorithms presented at the STOC, FOCS, ICALP, ESA, and STACS conferences. Unfortunately, due to space constraints, the report could not be entirely exhaustive, and results from other conferences or journal articles are not covered. We hope that all readers will find in the survey something of interest, to fill those long winter evenings. The papers in the report are organized roughly by applications.

4   Disk-directed I/O for MIMD multiprocessors

David Kotz

February 1997 **ACM Transactions on Computer Systems (TOCS)**, Volume 15 Issue 1

Publisher: ACM Press

Full text available: 📄 pdf(559.18 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Many scientific applications that run on today's multiprocessors, such as weather forecasting and seismic analysis, are bottlenecked by their file-I/O needs. Even if the multiprocessor is configured with sufficient I/O hardware, the file system software often fails to provide the available bandwidth to the application. Although libraries and enhanced file system interfaces can make a significant improvement, we believe that fundamental changes are needed in the file server software. We prop ...

Keywords: MIMD, collective I/O, disk-directed I/O, file caching, parallel I/O, parallel file system

5 System-level power optimization: techniques and tools

Luca Benini, Giovanni de Micheli

April 2000 **ACM Transactions on Design Automation of Electronic Systems (TODAES),** Volume 5 Issue 2

Publisher: ACM Press

Full text available: pdf(385.22 KB)   Additional Information: full citation, abstract, references, citings, index terms

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic sytems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, communication, and storage units, and we review methods of reducing their energy consumption. We also study models for analyzing the energy cost of software, and methods for energy-efficient software design and compilation. This survery ...

6 Conception, evolution, and application of functional programming languages

Paul Hudak

September 1989 **ACM Computing Surveys (CSUR),** Volume 21 Issue 3

Publisher: ACM Press

Full text available: pdf(5.19 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

The foundations of functional programming languages are examined from both historical and technical perspectives. Their evolution is traced through several critical periods: early work on lambda calculus and combinatory calculus, Lisp, Iswim, FP, ML, and modern functional languages such as Miranda[1] and Haskell. The fundamental premises on which the functional programming methodology stands are critically analyzed with respect to philosophical, theoretical, and pragmatic concerns. ...

7 Constraints: On context in authorization policy

Patrick McDaniel

June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available: pdf(316.39 KB)   Additional Information: full citation, abstract, references, citings, index terms

Authorization policy infrastructures are evolving with the complex environments that they support. However, the requirements and technologies supporting context are not yet well understood. Often implemented as condition functions or predefined attributes, context is used to more precisely control when and how policy is enforced. This paper considers context requirements and services in authorization policy. The properties and security requirements of context evaluation are classified. A key obs ...

Keywords: authorization, context, distributed systems, policy, policy-oriented programming, security requirements

8 Recent technical reports

December 1979 **ACM SIGACT News,** Volume 10 Issue 3

Publisher: ACM Press
Full text available: pdf(1.99 MB)   Additional Information: full citation

9 Special section on sensor network technology and sensor data managment: The Cougar Project: a work-in-progress report
Alan Demers, Johannes Gehrke, Rajmohan Rajaraman, Niki Trigoni, Yong Yao
December 2003 **ACM SIGMOD Record**, Volume 32 Issue 4
Publisher: ACM Press
Full text available: pdf(255.68 KB)   Additional Information: full citation, abstract, references

We present an update on the status of the Cougar Sensor Database Project, in which we are investigating a database approach to sensor networks: Clients "program" the sensors through *queries* in a high-level *declarative* language (such as a variant of SQL). In this paper, we give an overview of our activities on energy-efficient data dissemination and query processing. Due to space constraints, we cannot present a full menu of results; instead, we decided to only whet the reader's app ...

10 Euclid and Modula
David T. Barnard, W. David Elliott, David H. Thompson
March 1978 **ACM SIGPLAN Notices**, Volume 13 Issue 3
Publisher: ACM Press
Full text available: pdf(1.32 MB)   Additional Information: full citation, abstract, references, citings

Both Euclid and Modula are programming languages based on Pascal and intended for writing system software such as operating system kernels. The further goals of each language, however, resulted in two rather different languages. Modula is meant to be used in multiprogramming systems primarily on mini-computers; thus Modula aims for very small run-time support and efficient compilation by a small compiler. Many of the Euclid language design decisions, on the other hand, were influenced by the aut ...

11 Grid -Based Parallel Data Streaming implemented for the Gyrokinetic Toroidal Code
S. Klasky, S. Ethier, Z. Lin, K. Martins, D. McCune, R. Samtaney
November 2003 **Proceedings of the 2003 ACM/IEEE conference on Supercomputing**
Publisher: IEEE Computer Society
Full text available: pdf(335.48 KB)   Additional Information: full citation, abstract

We have developed a threaded parallel data streaming approach using Globus to transfer multi-terabyte simulation data from a remote supercomputer to the scientistýs home analysis/visualization cluster, as the simulation executes, with negligible overhead. Data transfer experiments show that this concurrent data transfer approach is more favorable compared with writing to local disk and then transferring this data to be post-processed. The present approach is conducive to using the grid to pipeli ...

12 Investigations of fault-tolerant networks of computers
Piotr Berman, J'anos Simon
January 1988 **Proceedings of the twentieth annual ACM symposium on Theory of computing**
Publisher: ACM Press
Full text available: pdf(923.48 KB)   Additional Information: full citation, references, citings, index terms

13 X10: an object-oriented approach to non-uniform cluster computing
Philippe Charles, Christian Grothoff, Vijay Saraswat, Christopher Donawa, Allan Kielstra, Kemal Ebcioglu, Christoph von Praun, Vivek Sarkar
October 2005 **ACM SIGPLAN Notices , Proceedings of the 20th annual ACM SIGPLAN conference on Object oriented programming systems languages and applications OOPSLA '05**, Volume 40 Issue 10

Publisher: ACM Press

Full text available: 📄 pdf(1.03 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

It is now well established that the device scaling predicted by Moore's Law is no longer a viable option for increasing the clock frequency of future uniprocessor systems at the rate that had been sustained during the last two decades. As a result, future systems are rapidly moving from uniprocessor to multiprocessor configurations, so as to use parallelism instead of frequency scaling as the foundation for increased compute capacity. The dominant emerging multiprocessor structure for the future ...

Keywords: Java, X10, atomic blocks, clocks, data distribution, multithreading, non-uniform cluster computing (NUCC), partitioned global address space (PGAS), places, productivity, scalability

14 <u>An execution/sleep scheduling policy for serving an additional job in priority queueing systems</u>
Kin K. Leung
April 1993 **Journal of the ACM (JACM)**, Volume 40 Issue 2
Publisher: ACM Press

Full text available: 📄 pdf(1.40 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>, <u>review</u>

In a priority-based computer system, besides the regular jobs, an additional job (refereed to as job A) is invoked infrequently but requires a significant amount of CPU time. To avoid CPU hogging, job A receives (up to) a fixed amount of CPU time whenever it is served. When the time expires, job A immediately relinquishes the CPU and puts itself to sleep for a period of time. By doing so, jobs with low priority may be processed in a timely manner. When the sleep time is ove ...

Keywords: performance evaluation, priority queues, response times, server vacation models, time-limited service, waiting times

15 <u>A method for adaptive performance improvement of operating systems</u>
David Reiner, Tad Pinkerton
September 1981 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1981 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '81**, Volume 10 Issue 3
Publisher: ACM Press
Full text available: 📄 pdf(884.62 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

This paper presents a method for dynamic modification of operating system control parameters to improve system performance. Improved parameter settings are learned by experimenting on the system. The experiments compare the performance of alternative parameter settings in each region of a partitioned load-performance space associated with the system. The results are used to modify important control parameters periodically, responding to fluctuations in system load and performance. The metho ...

16 <u>Kernel korner: sleeping in the kernel</u>
Kedar Sovani
September 2005 **Linux Journal**, Volume 2005 Issue 137
Publisher: Specialized Systems Consultants, Inc.
Full text available: 📄 html(19.30 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

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17 <u>Synchronization: Low-cost attacks against packet delivery, localization and time synchronization services in under-water sensor networks</u>
Jiejun Kong, Zhengrong Ji, Weichao Wang, Mario Gerla, Rajive Bagrodia, Bharat Bhargava

September 2005 **Proceedings of the 4th ACM workshop on Wireless security WiSe '05**
Publisher: ACM Press
Full text available: pdf(266.49 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Under-Water Sensor Networking (UWSN) is a novel network paradigm that is being proposed to explore, monitor and protect the oceans. The unique characteristics of the aquatic environment, namely huge propagation delay, absence of GPS signaling, floating node mobility, and limited (acoustic) link capacity, are very different from those of ground sensor networks. Since underwater networks are mostly autonomous and very difficult to directly monitor by humans, a very important requirement is the bui ...

Keywords: denial-of-service attack, mobility, underwater sensor network, wormhole length

18 <u>Communication overlap in multi-tier parallel algorithms</u>
Scott B. Baden, Stephen J. Fink
November 1998 **Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM)**
Publisher: IEEE Computer Society
Full text available: pdf(278.73 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

Hierarchically organized multicomputers such as SMP clusters offer new opportunities and new challenges for high-performance computation, but realizing their full potential remains a formidable task. We present a hierarchical model of communication targeted to block-structured, bulk-synchronous applications running on dedicated clusters of symmetric multiprocessors. Our model supports node-level rather processor-level communication as the fundamental operation, and is optimized for aggregate pat ...

19 <u>Kernel korner: the new work queue interface in the 2.6 kernel</u>
Robert Love
November 2003 **Linux Journal**, Volume 2003 Issue 115
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(19.86 KB)   Additional Information: <u>full citation</u>

20 <u>Optimal paths in graphs with stochastic or multidimensional weights</u>
Ronald Prescott Loui
September 1983 **Communications of the ACM**, Volume 26 Issue 9
Publisher: ACM Press
Full text available: pdf(644.36 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper explores computationally tractable formulations of stochastic and multidimensional optimal path problems, each as an extension of the shortest path problem. A single formulation encompassing both problems is considered, in which a utility function defines preference among candidate paths. The result is the ability to state explicit conditions for exact solutions using standard methods, and the applicability of well-understood approximation techniques.

Keywords: multidimensional, operations research, shortest path, stochastic, utility function

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☐ 2. **Matching Output Queueing With a Multiple Input/Output-Queued Switch**
Lee, H.-I.; Seo, S.-W.;
Networking, IEEE/ACM Transactions on
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Digital Object Identifier 10.1109/TNET.2005.863706

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